

# **Hyperion 2035 Recycled Water Program**

**Santa Monica Bay Restoration  
Commission  
December 8, 2020**

**Huub Cox  
LA Sanitation and Environment  
Water Recycling Implementation  
Division**



# LA's Green New Deal

- Sustainability goals for water
  - Reduce our dependency on imported water
  - Be resilient to disasters and drought
  - Keep our rivers and beaches clean, usable, and thriving with wildlife
  - Be a leader in water conservation
  
- Specific targets
  - Reduce purchased of imported water by 50% in 2025
  - Source 50% of City's water supply locally by 2035
  - Recycle 100% of all wastewater for beneficial reuse by 2035

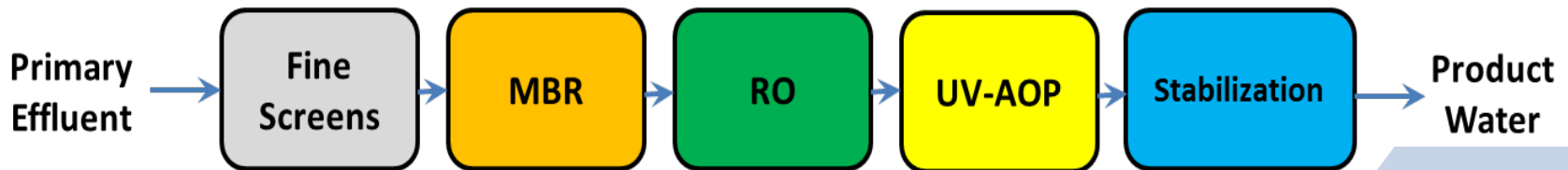


# LASAN Recycled Water Program

- Terminal Island WRP
  - TIWRP Advanced Water Purification Facility Phase I – 2006
  - TIWRP Advanced Water purification Facility Phase II – 2017
- Donald C. Tillman WRP
  - DCT Ozone Demonstration Project – 2021
  - DCT Advanced Water Purification Facility – 2026
- Los Angeles-Glendale WRP
  - LAG Advanced Water Purification Demonstration Facility – 2024
- Hyperion WRP
  - Hyperion 2035 Program
  - Hyperion Advanced Water Purification Facility – 2022
  - MBR Pilot Project - 2021

# Hyperion 2035 overview

- Goal: Transform Hyperion to a 100% water recycling facility by 2035 for potable reuse applications
- LASAN and LADWP partnership
- Process: Membrane bioreactors, reverse osmosis, UV advanced oxidation
- 2035 influent flow: 272 mgd
- Projected output:
  - up to 174 mgd of recycled water
  - up to 54 mgd to West Basin
  - up to 44 mgd RO concentrate

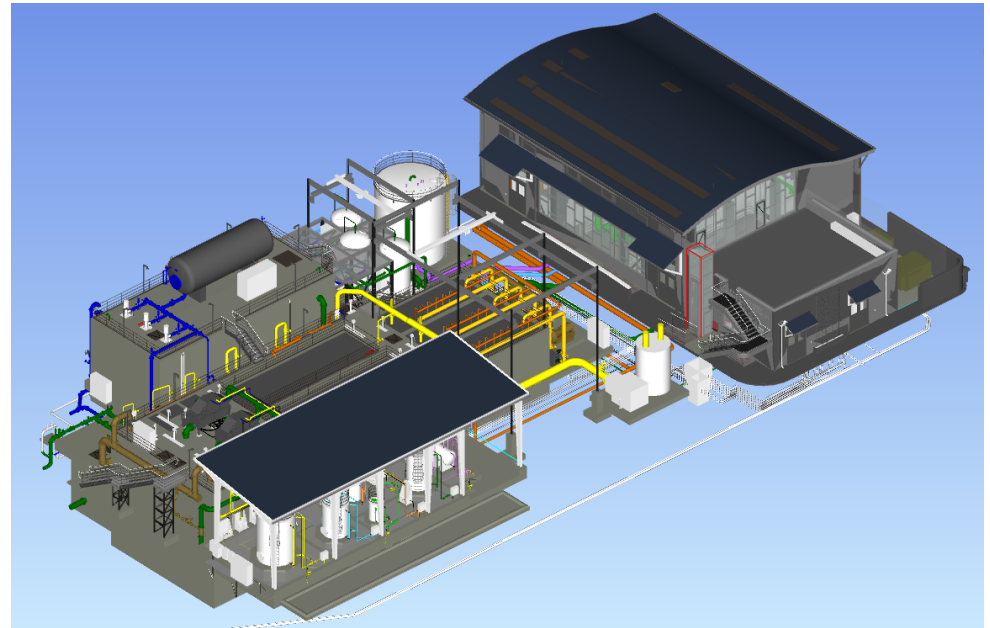


# Hyperion 2035 overview

- Three general phases:
  1. Conceptual → 2020-23
  2. Design → 2023-25
  3. Construction → 2025-35
- Conceptual:
  - Advanced treatment process
  - Wet weather flow treatment process
  - NPDES permit requirements
  - Programmatic EIR
  - Program delivery
- Design:
  - Facility design
  - Project specific EIR
  - Permitting
- Construction:
  - Program phasing and packaging
  - Project alternative delivery

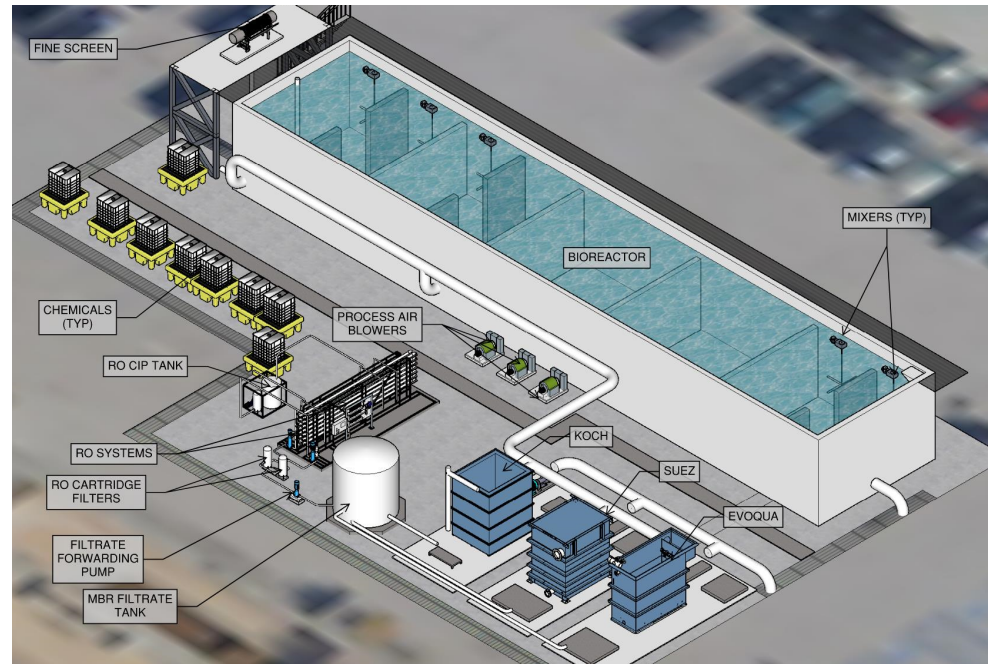
# Hyperion Advanced Water Purification Facility

- Project goals
  - 1.5 mgd for LAX and Hyperion
  - Proof of concept for 2035
- Project partners
  - LASAN, LADWP, LAWA
- Project delivery
  - Progressive Design Build
- Project cost
  - \$86 million
- Current Status
  - Site prep completed
  - Design at 70%
  - Working on NTP for construction



# MBR Pilot Project

- Project goals
  - Regulatory approval of MBR
  - Side-by-side comparison of 3 MBR systems
  - Design data for 2035
- Project partners
  - LASAN, LADWP, WBMWD
- Project cost
  - \$18 million
- Current status
  - In construction
  - Independent Advisory Panel





# Questions and comments

